

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A communication method for ~~wireless~~ a mobile wireless transmit receive unit (mobile WTRU) ~~communication~~ within a wireless network having geographic areas for preferred communication usage where the mobile WTRU can directly transmit and receive communication signals with a predetermined network station associated with a respective geographic area, comprising the steps of:

determining an estimated geographic location of a mobile WTRU unit;

providing the mobile WTRU unit with ~~relative~~ position data ~~of at least one preferred communication area~~ relative to the determined mobile WTRU unit estimated location of at least one preferred communication area associated with a network station with which the WTRU cannot directly communicate at the determined mobile WTRU estimated location; and

displaying the relative position data of said at least one preferred communication area to facilitate relocation of the mobile WTRU unit from the determined mobile WTRU unit estimated location to said at least one preferred communication area; and

relocating the WTRU to within said at least one preferred communication area such that the WTRU directly transmits and receives communication signals with the network station associated with said at least one preferred communication area.

2. (Currently Amended) The method of claim 1, further comprising the steps of:

initiating a request for a pre-designated preferred communication area location by the mobile ~~unit transmission~~ WTRU; and
receiving the request by a network base station.

3. (Currently Amended) The method of claim 2, wherein the mobile WTRU ~~unit~~ is equipped with a global positioning system (GPS), the mobile WTRU ~~unit~~ estimated location is determined by using the mobile WTRU's ~~unit's~~ global positioning system (GPS), the mobile WTRU ~~unit~~ request transmission includes current mobile WTRU ~~unit~~ estimated location data, and the network base station transmits to the mobile WTRU ~~unit~~ relative position data that is determined by the network based on the current mobile WTRU ~~unit~~ estimated location data.

4. (Currently Amended) The method of claim 3, wherein the relative position data transmitted by the network base station to the mobile WTRU ~~unit~~ is determined by the network, based on the current mobile WTRU ~~unit~~ estimated location data and dynamic data of preferred communication area usage.

5. (Currently Amended) The method of claim 2, wherein a current mobile WTRU ~~unit~~ estimated location is determined by the wireless network analyzing data related to physical properties of the mobile WTRU ~~unit~~ request transmission and the network base station transmits to the mobile WTRU ~~unit~~ relative position

data that is determined by the network based on the current mobile WTRU ~~unit~~ estimated location data.

6. (Currently Amended) The method of claim 5, wherein the relative position data transmitted by the network base station to the mobile WTRU ~~unit~~ is determined by the network, based on the current mobile WTRU ~~unit~~ estimated location data and dynamic data of pre-designated preferred communication area usage.

7. (Currently Amended) The method of claim 2, wherein the mobile WTRU ~~unit~~ is equipped with a global positioning system (GPS), the mobile WTRU ~~unit~~ estimated location is determined by using the mobile WTRU's ~~unit's~~ global positioning system (GPS), the network base station transmits to the mobile WTRU ~~unit~~ geographic location data of all network pre-designated preferred communication areas serviced by the base station, and relative position data is determined by the mobile WTRU ~~unit~~.

8. (Currently Amended) The method of claim 2, wherein the network permits direct mobile WTRU ~~unit~~ wireless communications with network base stations and also peer-to-peer wireless communications between mobile WTRUs ~~units~~ and wherein the request initiated by the mobile WTRU ~~unit~~ and received by the network base station is relayed via a different mobile WTRU ~~unit~~ located in a pre-designated preferred communication area serviced by the base station.

9. (Currently Amended) The method of claim 1, wherein the network monitors determined mobile WTRU ~~unit~~ estimated locations and relative position data is periodically transmitted to the mobile WTRU ~~unit~~ that is determined by the network, based on current mobile WTRU ~~unit~~ estimated location data and dynamic data of network usage.

10. (Currently Amended) The method of claim 1, wherein the mobile WTRU ~~unit~~ is equipped with a global positioning system (GPS) and the mobile WTRU ~~unit~~ estimated location is determined by using the mobile WTRU's ~~unit's~~ global positioning system (GPS).

11. (Currently Amended) The method of claim 1, wherein relative position data is determined by the network based on the determined mobile WTRU ~~unit~~ estimated location data and dynamic data of network usage data such that a ranked preference order of preferred communication areas is determined and relative position data at least a first preferred communication area preference is transmitted by a network base station to the mobile WTRU ~~unit~~.

12. (Currently Amended) The method of claim 1, further comprising the steps of:

defining preferred communication areas by respective sets of geographical coordinates;

storing said coordinate sets in a network database; and

selectively transmitting from a network base station one or more of the data sets to provide the mobile WTRU ~~unit~~ with relative position data.

13. (Currently Amended) The method of claim 1, wherein the mobile WTRU ~~unit~~ is equipped with a map display, the method of further comprising the step of using relative position data to display ~~hot spot~~ a map of preferred communication areas relative to the estimated mobile WTRU ~~unit~~ location and relocating the mobile unit to a preferred communication area based on the relative position data.

14. (Currently Amended) A mobile wireless transmit receive unit (mobile WTRU) for communication within a wireless network having geographic areas pre-designated for preferred communication usage where the mobile WTRU can directly transmit and receive communication signals with a predetermined network station associated with a respective geographic area, comprising:

a transmitter that is configured to use a determined mobile WTRU estimated location to initiate a request for a ~~pre-designated preferred communication area~~ location of at least one pre-designated preferred communication area associated with a network station with which the WTRU cannot directly communicate at the determined mobile WTRU estimated location ~~when the mobile unit is in a determined mobile unit estimated location not within a pre-designated preferred communication area of the network;~~

a receiver configured to receive geographic location data corresponding to at least one pre-designated preferred communication area serviced by the network;
and

a user output device configured to display relative position data of said at least one preferred communication area relative to the determined mobile WTRU ~~unit~~ estimated location to facilitate relocation of the mobile WTRU ~~unit~~ from the determined mobile WTRU ~~unit~~ estimated location to said at least one preferred

communication area such that the WTRU can directly transmit and receive communication signals with the network station associated with said at least one preferred communication area.

15. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, further comprising a global positioning system (GPS) that determines an estimated location of the mobile WTRU ~~unit~~, wherein the transmitter is configured to transmit the pre-designated preferred communication location request by transmitting a signal that includes current mobile WTRU ~~unit~~ estimated location data, and wherein the mobile WTRU ~~unit~~ receiver is configured to receive geographic location data corresponding to at least one pre-designated preferred communication area in the form of relative position data that is determined by the network based on the transmitted mobile WTRU ~~unit~~ estimated location data.

16. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, wherein the mobile WTRU ~~unit~~ receiver is configured to receive geographic location data corresponding to at least one pre-designated preferred communication area in the form of relative position data that is determined by the network, based on a mobile WTRU ~~unit~~ estimated location determined by the wireless network analyzing data related to physical properties of the mobile WTRU ~~unit~~ request transmission.

17. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, further comprising a global positioning system (GPS) that determines an estimated location of the mobile WTRU ~~unit~~ and that calculates relative position data based on geographic location data corresponding to at least one pre-designated preferred

communication area serviced by the network received in response to a transmitted request.

18. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, wherein the mobile WTRU ~~unit~~ is configured for direct communication with network base stations and also peer-to-peer wireless communications with other mobile WTRUs ~~units~~ and wherein the mobile WTRU ~~unit~~ receiver is also configured to receive a response to a transmitted request via a relay from another mobile WTRU ~~unit~~ in direct communication with a network base station.

19. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, further comprising a map display configured to visually display pre-designated preferred communication areas relative to the estimated mobile WTRU ~~unit~~ location.

20. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, wherein the mobile WTRU ~~unit~~ is configured for wireless communication in a wireless local area network (WLAN).

21. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, wherein the mobile WTRU ~~unit~~ is configured for wireless communication in a time division duplex (TDD) telecommunications system.

22. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, wherein the mobile WTRU ~~unit~~ is configured for wireless communication in a frequency division duplex (FDD) telecommunications system.

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23. (Currently Amended) The mobile WTRU ~~unit~~ of claim 14, wherein the user output device comprises a power use indicator that is active when the mobile WTRU ~~unit~~ is not physically located in a pre-designated preferred communication area and is located in an area where power consumption is relatively high.